



WORK SHEET

Module 3.2 Calculating Feet Traveled Per Second

Name _____

Date _____

Calculating Feet Traveled Per Second Formula

Score _____

One mile = 5,280 feet

The formula:

$5,280 \text{ feet} \div 60 \text{ min} \div 60 \text{ sec} = 1.467 \text{ feet traveled per second}$

or simplified method:

$\text{speed (say it's 30mph)} \div 2 = 15 + \text{speed (30mph)} = 45 \text{ feet/second traveled}$

INSTRUCTIONS

Use the formula to calculate the distance a vehicle travels at these various speeds.

25mph = _____

35mph = _____

45mph = _____

55mph = _____

65mph = _____

75mph = _____

Solve these problems:

John travels to school every day averaging 30mph. (This time does not account for any stops, delays, etc., which does not typically occur!) He travels 6 miles one way. How long does it take him to get to school?

John is late one day and increases speed to 40mph. How much time does he save?